

Fig.1

A Mouse ST8Sia VI

CGGAGCGGGCGAGTCGGTGCAGCCGGGTGCGCTTCGCCCGGGCAGCTTGGCGCCGAGGACGCCGTGGCTCAGGATGAGATCGGGGGCACCGCTGTC	100
M R S G G T L F	8
GCCCTCATAGGCAGCCGATGCTGCTGCCCTCTCGCTATGCTCTGGTGCCTGCCAGCCGACGCCGTGCCCTGCCCTCCAGGCTGTTGATGGAGGAAGCAGAG	200
A L I G S L M L L L R M L W C P A D A P A R S R L L M E G S R E	42
AGGACACCAGTGGTACCTCAGCTGACTGAAGACACTCTGGAGCCGACAACCCCGTACCGCACCAGGAACAGCACATATCTGGATGAGAACAC	300
D T S G T S A A L K T L W S P T T P V P R T R N S T Y L D E K T T	75
CCAAATAACAGAGAAATGCAAAGATCTCAATATAGCTTGAACACTCTTATCTAACAAAAGCAGACGGTACTCTGAGGATGACTACCTCCAGACCATCACA	400
Q I T E K C K D L Q Y S L N S L S N K T R R Y S E D D D Y L Q T I T	108
AAACATACAGAGATGCCATGGAACCGGCAAGCAGAAGAATATGACAATTAGAGCAGAAACTGGCTCCCTGTTGCGATGCCATTCAAGACTTCGTTGTTT	500
N I Q R C P W N R Q A E E Y D N F R A K L A S C C C D A I Q D F V V S	142
CCCAGAACACACTCCAGTGGGACTAACATGAGCTACGGAGGTGAGAACACATCCCCATTGAGAGAACATTTCCACATGTTCCAGTGTC	600
Q N N T P V G T N M S Y E V E S K K H I P I R E N I F H M F P V S	175
GCAGCCTTTGAGCTATCCCTATAACCACTGGTGCAGTGGTTGTAATGGGGAAATCTCAACAAAGTCTCTGCGGGAGCAGAACATTGATAAACTGAC	700
Q P F V D Y P Y N O C A V V G N G G I L N K S L C G A E I D K S D	208
TTCGTCCTCAGGTGTAACCTCCCCAAATCACAGGGAGCGCTAGTAAAGATGTTGAGCTGCAATCCAGCATTAAACCC	800
F V F R C N L P P I T G S A S K D V G S K T N L V T W N P S I I T L	242
TAAGAGTACCAAGAATTGAGGGAGAACAGTGGAGGACATCTCCACCTATGGAGATGCAATTCCCTCTGCGCAGCATTTCTATCGGGC	900
K Y Q N L K E K K A Q F L E D I S T Y G D A F F L L P A F S Y R A	275
CAACACAGGCATCTCTTAAAGTCTACCAAAACACTCAAAGAGTCAAAATGAGGCAAAAGGTTCTCTCTCCATCCAGGTACCTGAGAACACCTCGCT	1000
N T G I S P K V Y Q T L K E S K M R Q K V L F F H P R Y L R H L A	308
CTTTCTGGAGAACTAAAGGGGTACTGCATACCGCTTGCCACAGGCTTGTGATGTTGCAAGTGTGCTGTGAAACTGTGTGAAGCTCTAGG	1100
L F W R T K G V T A Y R L S T G L M I A S V A V E L C E N V K L Y G	342
GATTCTGGCTTCTCTAAAGACTATCGAACAGACCCCCACTCAGTCACCAACTACTATGATAACATGTTACCTAACGATGGTTCCACAGATGCTAAAGA	1200
F W P F S K T I E D T P L S H H Y Y D N M L P K H G F [H] Q M P K [E]	375
ATACACCCAAATGCTCCAGCTCATATGAGAGGAATCTCAACACTGCAATTCAAGCAATTGTGAAACGGCTTAACGTTCTTAGAAGGAGAACATTCAG	1300
Y S Q M L Q L H M R G I L K L Q F S K C E T A *	398
GAGGTGGAGTGGATGIGTCACAGCATCTCAAAAAGCCAATAGAAGAAGGCACAGAGAACAGCATGAATTACAAAGGCTCTCCACTTGCTAGACCAA	1400
AGCCACCCGCCCCACTCAGCTTGCAGCTCCACAGTCACTCATTCACCTTCACGTTCTGAGAACATAGAGACCAAAACATCAGACTTGAT	1500

B Human ST8Sia VI

GGTGGCGCGGGCGGGAGCCGCGAGTCGGGGCGCCGGGTGCTGCTTCGCCCGGGCAGCAGCGGTGGCGGCCGTGGCTCAGGATGCGGGCG	100
M R P	3
GGGGCGCACTGCTGCCCTGCTCGCCAGCCGTGCTGCTGCTGCTGCTGCTCTGGTGCCTGCCGGCAGACGCCGGGGGCCAGGGATTCTGG	200
G G A L L A L L A S L L L L L R L L W C P A D A P G R A R I L V	37
TGGAGGAAAGCAGGGAGGCCACCCACGGCACCCCCGCGAGGACGCTCCGGAGCCGGCAGCCGGTACCGCGGCCACTAACAGCACATATCT	300
E E S R E A T H G T P A A L R T L R S P A T A V P R A T N S T Y L	70
GAATGAGAAGTCGCTCAACTGAGGAAATCTGCAATATGGCATTGAGTCTCTCTAACAAAAGGAAAGGTTACAGAGAACGACTAC	400
N E K S L Q L T E K C K N L Q Y G I E S F S N K T K G Y S E N D Y	103
CTTCAGAATTACAGATATACAGAGTTGTCATGGAAAGCGCAAGCAGAACATGCAATTAGGAAATTCTGCTTCCTGCTGTGATGCTGTT	500
L Q I I T D I Q S C P W K R Q A E E Y A N F R A K L A S C C D A V Q	137
AAAACCTTGTGTTCTCAGAATAACACTCCAGTTGGACTAATATGAGTTACGAGGTTGAAAGCAAAAGAACATCCAAATTAGAAGAACATTTTC	600
N F V V S Q N N T P V G T N M S Y E V E S K K E I P I K K N I F H	170
TATGTTCCAGTGTCCAGCTTGTGACTACCCCTATAATCAGTGTGCACTGGTGGAAATGGGGAAATTCTGATAAAGTCTCTGTGAACTGAA	700
M F P V S Q P F V D Y P Y N Q C A V V G N G G I L N K S L C G T E	203
ATAGATAAAATCCGACTTCGTTTGGTGTACCTACCCCAACACAGGAGATGTTAGTAAAGATGTTGCAAGTAAACATCTGTGACTATAATC	800
I D K S D F V F R C N L P P T T G D V S K D V G S K T N L V T I N P	237
CAAGCATCATAACTCTGAAATATGGAACTTAAAGGAAAAAGCCATTGGAGGACATGCAACCTATGGAGATGCAATTCTCTGTGAACT	900
S I I T L K Y G N L K E K K A L F L E D I A T Y G D A F F F L P A	270
ATTTCTTCAGGGCAACACGGTACCTCTTCAAGTATACTACACGCTGCAAGAGCTAAAGCAAGAACAAAAGGTTCTATTCTCTGAACT	1000
F S F R A N T G T S F K V Y Y T L E E S K A R Q K V L F F H P K Y	303
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L K D L A L F W R T K G V T A Y R L S T G L M I T S V A V E L C K N	337
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V K L Y G F W P F S K T V E D I P V S H H Y Y D N K L P K H G F [H]	370
TCAGATGCCAAAGAACATACAGCCAGTCCTCAACTTCACATGAAAGGAATCTCAAACCAATTAGCAGTAAAGCTACCTAAACATGGTTCT	1300
Q M P K [E] Y S Q I L Q L H M K G I L K L Q F S K C E V A *	398
AAAAATGGGATAATTAAATAATGAGTAGGTGATTAACAAATGTCCTCAAACCAAAAGGAGGTGGCTAAAGAGTATTGAGATGAGCCCCAAAAATT	1400
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Fig.2

A

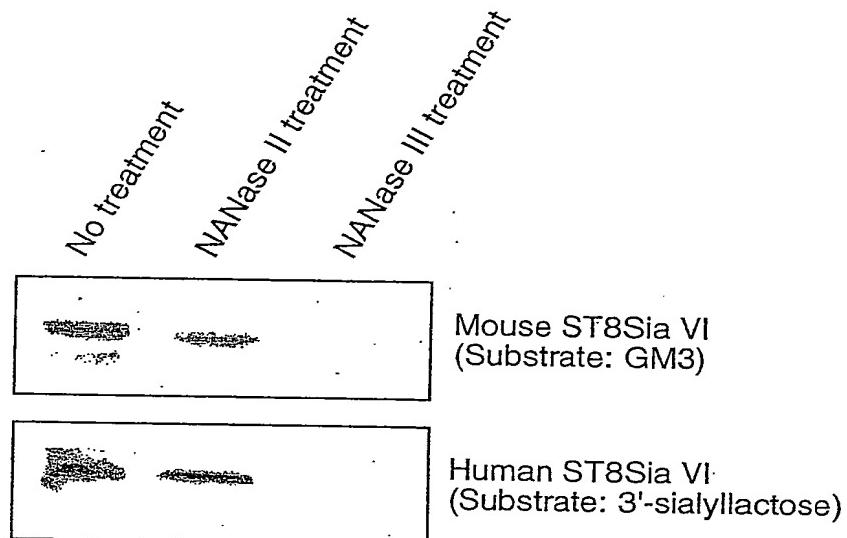
ST8Sia I	1	M--S-[ECG-R]AHTSH-----G-A-M-A[M]TAR---[F-F]-P[T-T-RL--PVG---R--	31
ST8Sia V	1	MRYAD[E]SAN[E]D[LGNR]T[LH]I[F]CAF[A]VTLI[Q]QILYS[S]YIKH-GFQFGWORG[DQ][QNW	59
ST8Sia VI	1	-----MRSGGT-[L]EAL[I]GSLM[L]LL[RMLWCPADAPAS[R]RLLMEGS[R]EUTSGTS	48
ST8Sia I	32	S[A]I-----C-V---VV--LCWLY-IF---[F]V-Y---[F]-PNEKE[V]QG-VIA---[CRT---A	66
ST8Sia V	60	T[G]FNDSD[S]PTEQNITGSS[R]F[E]FYR[E]LEFNST[S]QELRQE[T]EVKVI[SMVK]QSEHFE	119
ST8Sia VI	49	A[A]I-KTLWSP[T]TPVPRTRN[S]TLD-E[K]TTQITEKCKD[L]QYSLNLS[S]NKTRRYSEDDYL-Q	105
ST8Sia I	67	[W]RT-N---Q---[T]S-[ASLFF]ROMED[C]PAHL[S]AMTKMN[S]EMCKST[W]YD[G]ELLYSFT[T]	117
ST8Sia V	120	RWKSLO[D]ICKWAMGASEASLAKST[S]SRC[N]APNFLFTTC[K]NT[P]VETNR[Y]REVE[S]GLYH[T]	179
ST8Sia VI	106	TITNI[Q]RC[P]WNRO[EE]YDNEFRAKLASCCDAI[Q]D[E]VVSQ[N]NTPVGTNMS[Y]EVESKKHIFI[R]	165
ST8Sia I	118	NSTYSL[F]HQATE-FOL[E]LKKCAVVGNGGILKMSGDARC[T]EPNFV[MR]CNLP[H]ISSE[Y]TR	176
ST8Sia V	180	Q[B]IEKMFKEKEMHYYRSQFKKCAVVGNGGILKNSGCCKEINSADFV[RCNLPP]ISGTYT[T]	239
ST8Sia VI	166	ENIEHMFVSQ[F]VDYHYNQCAVVGNGGILNKSICCAEIT[K]SDFV[RCNLPP]IT[S]ASKU	225
ST8Sia I	177	V[G]SKT[Q]LVTANPSI[T]RQRFENI-LWSEKKFVDNMKINHHSYIYMPAFSMKTGTEP[SLRV	235
ST8Sia V	240	V[G]EKTDVTVNP[S]I[T]IDRHKI[E]KWI-HRPF[F]SVLQRYENASVLLPAH[Y]NVRNTLVSFRVK	298
ST8Sia VI	226	V[G]SKTNLVTVP[S]I[T]LKYQNLKE-KKAQ[LEDISTY]GDFILLPAF[S]YRANTGISEFRV	284
ST8Sia I	236	[Y]TLKIV[G]VGANCTVLFANH[N]ELHNIGK[F]WKR[G]I[H]AKRLST[G]FLVSAAL[G]CEEV[S]IYGF	295
ST8Sia V	299	[Y]MIDDFQSRQ[P]VYF[F]H[Q]YISSVSRYWLSLGVRARH[T]ST[G]SLVTAALELCEEV[H]IYGF	358
ST8Sia VI	285	QTLKESKMRCKVLFH[R]YLAHLFWRTKGVTAYRLST[G]IMIA[V]AVVELCENVKLYGF	344
ST8Sia I	296	P[F]V[N]MQGDPISHHYYDNVLHF[G]CYHAMEEH[F]LGLWY[L]HKIGALRMLDPCHEPSPQPTS	355
ST8Sia V	359	AHPMPNPS[G]FTHHYYDNV[K]P[P]GFHAMSEIFTFIRMHSRGILV[V]HTGTD-NCC---	412
ST8Sia VI	345	P[F]SKTIEDTE[LS]HHYYDNMLPKHG[F]HOMHKEYS[Q]MQLHMRG[I]KICFSKCE[T]A----	398
	*	*	

B

mST8Sia VI	1	M[F]SGCT[Q]LAI[G]SLM[LL]LLRMLWCPADAPAH[SH]LMEGS[RED]TS[G]TSAALKT[L]WSP[T]P	60
hST8Sia VI	1	M[F]PGGCAI[Q]LAI[L]ASI[LL]LLRMLWCPADAPAH[SH]LMEGS[RED]TS[G]TSAALKT[L]WSP[T]P	60
mST8Sia VI	61	V[P]RTN[ST]YID[E]KT[G]I[T]EKCKD[L]QYSLNLS[S]NKTRRYSEDDYLQ[T]TINQ[G]CPWNROAE	120
hST8Sia VI	61	V[P]RAT[ST]YINER[S]LQI[T]EKCKNLO[Y]GIESFSNKT[G]YSEN[D]YLT[T]DQ[G]CPWKROAE	120
mST8Sia VI	121	E[Y]DNFRAKLASCCDAI[Q]DFVVSQ[N]NTPVGTNMS[Y]EVESKKH[I]P[I]RENIFHMFPVSQPFV	180
hST8Sia VI	121	E[Y]ANFRAKLASCCDAV[G]NFVVSQ[N]NTPVGTNMS[Y]EVESKKH[I]P[I]KKNIFHMFPVSQPFV	180
mST8Sia VI	181	YPYNQCAVVGNGGILNKSICCAEIDKSDFV[RCNL]PIT[G]SA[S]KDVGSKTNLV[V]NPSII	240
hST8Sia VI	181	YPYNQCAVVGNGGILNKSICCAEIDKSDFV[RCNL]PIT[G]DV[S]KDVGSKTNLV[V]NPSII	240
mST8Sia VI	241	TLKQNLKEKKQ[FL]EDI[ST]Y[G]DAF[L]LPAF[S]YRANTG[IS]FKVY[Q]TIKESKMRQKVLFFH	300
hST8Sia VI	241	TLKQNLKEKKQ[FL]EDI[AT]Y[G]DAFFFLPAF[S]YRANTG[TS]FKVY[Y]TLEESKARQKVLFFH	300
mST8Sia VI	301	F[Y]I[R]H[LA]LFWRTKGVTAYRLST[G]LMIA[V]AVVELCENVKLYGF[W]PFSKT[IE]T[EL]SHHYY	360
hST8Sia VI	301	E[K]YIKD[LA]LFWRTKGVTAYRLST[G]LMIT[V]AVVELCENVKLYGF[W]PFSKT[VE]T[EV]SHHYY	360
mST8Sia VI	361	D[N]MLPKHG[F]HOMPKEYS[Q]MQLHMRG[G]ILKLOFSKCE[T]P	398
hST8Sia VI	361	D[N]KLPKHG[F]HOMPKEYS[Q]IQLHMRG[G]ILKLOFSKCE[V]	398

Fig.3

A



B

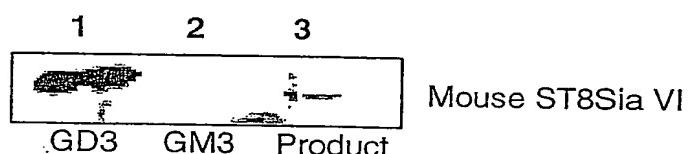


Fig.4

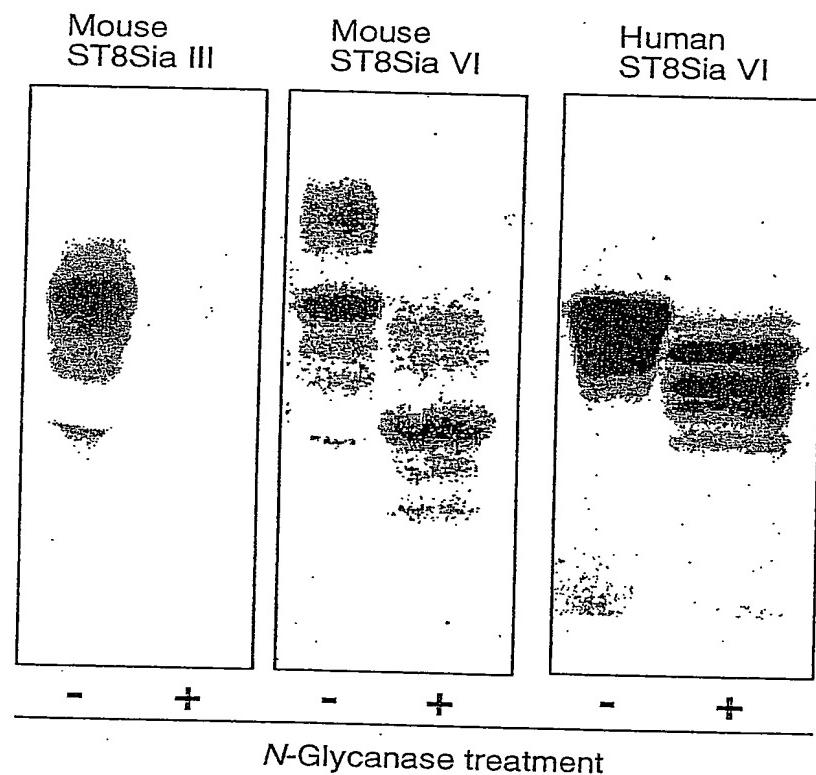


Fig.5

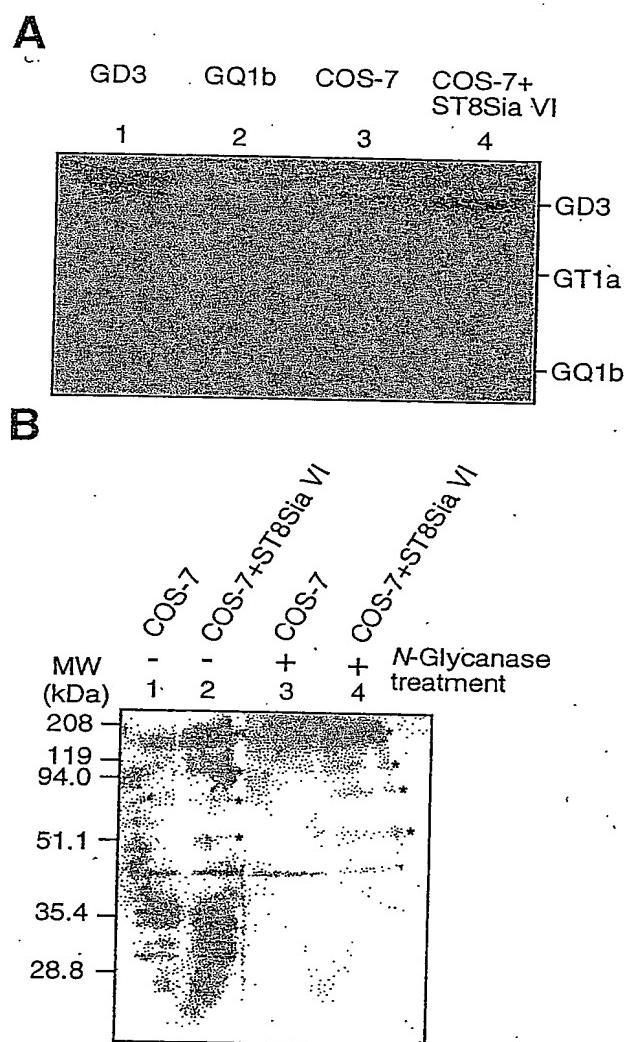
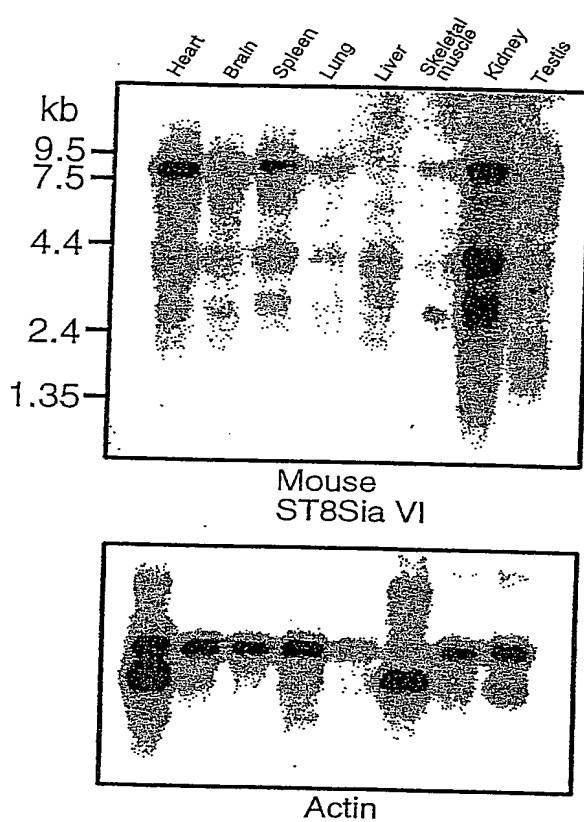


Fig.6

A



B

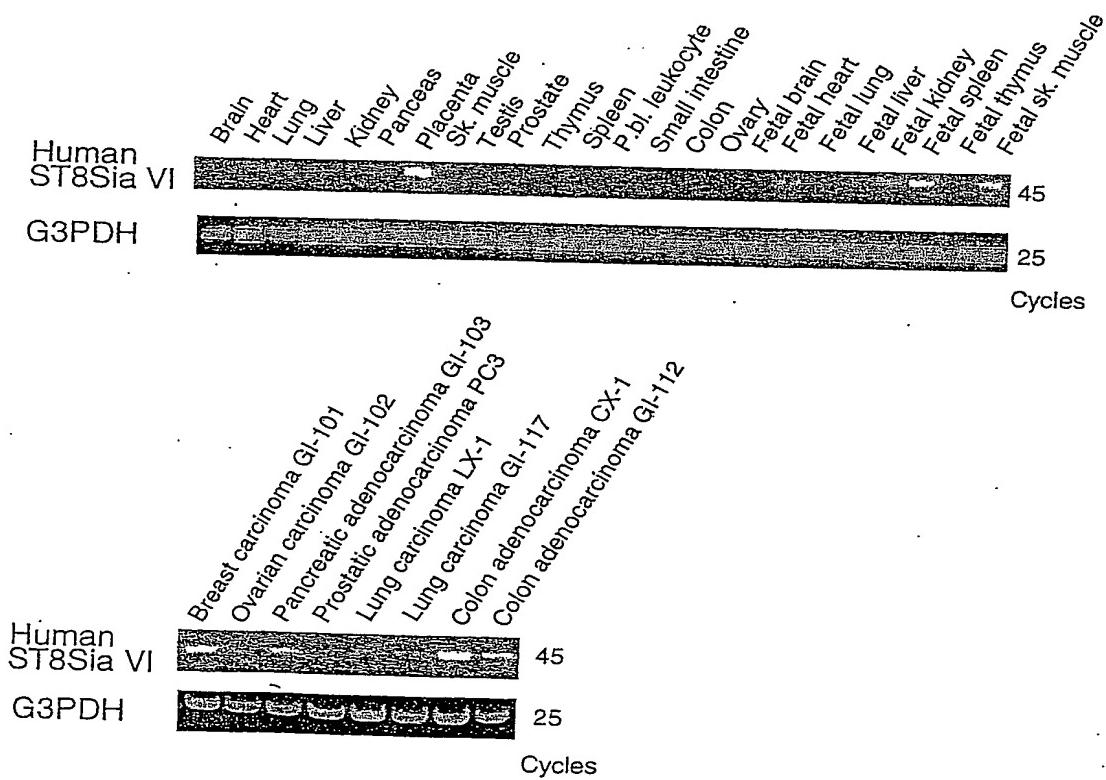


Fig.7

A

Human ST6Gal II

ggcgccgggactccctectggccgccccacagccctgtgcgattcctgcattccctgcgcggccgggacccgagccccggagggtgtccaggcgccgtgc	100
caggccggtaactgtcaggttcatctgcacccatctgcattaagacaaggctgacccgcagacacacttgcattaaaccacacttgaaagcaatgg	200
M K P H L K Q W R	209
gacaacgaatgttttcggaaatttcgcgtggggcttccttttgcgtatcccacttgcacccgcacagcaaccccgctgagcctgtacccagtc	300
Q R M L F G I F A W G L L F L L I F I Y F T D S N P A E P V P S S	300
cctcttccttcggagaccaggaggcttcgcgggtgcagggaaagcagccggccatcatgggcgcgcacatggccctcccccgcctggggcctggac	400
L S F L E T R R L L P V Q G K Q R A I M G A A H E P S P P G G L D	400
gcacccaggcgtgcggccgcacccagccgggttccttcatgcggggcctggagacactgcagaaaatggcccaatggcccaatgggtttgaacata	500
A R Q A L P R A H P A G S F H A G P G D L Q K W A Q S Q D G F E H K	500
aagagttttttcatcccagggtggggaaaaatctcaaagtgttttacccggaggatgacgactactttttgtctgtgtcagccagggtggcacag	600
E F F S S Q 'V G R K S Q S A F Y P E D D D Y F F A A G Q P G W H S	600
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H T Q G T L G F P S G E P G F P R E G A F P A A Q V Q R R V K K	700
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R H R R Q R R S H V L E E G D D G D R L Y S S M S R A F L Y R L W K	800
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G N V S S K M L N P R L Q K A M K D Y L T A N K H G V R F R G K R	900
ggaggccggcgtgacggggcagacagctgtgtccagctgcggagccgcgcgtggcgcgcgtggacggcaccggggcccttcgcgtggc	1000
E A G L S R A Q L L C Q L R S R A R V R T L D G T E A P F S A L G	1000
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W R R L V P A V P L S Q L H P R G L R S C A V V M S A G A I L N S S	1100
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L G E E I D S H D A V L R F N S A P T R G Y E K D V G N K T T I R	1200
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I I N S Q I L T N P S H H F I D S S L Y K D V I L V A W D P A P Y	1300
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S A N L N L W Y K K P D Y N L F T P Y I Q H R Q R N P N Q P F Y I L	1400
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I M M S M C R E V H V Y E Y I P S V R Q T E L C H Y H E L Y Y D A	1600
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A C T L G A Y H P L L Y E K L L V R L N M G T Q G D L H R K G K V	1700
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	529
Short form	
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B

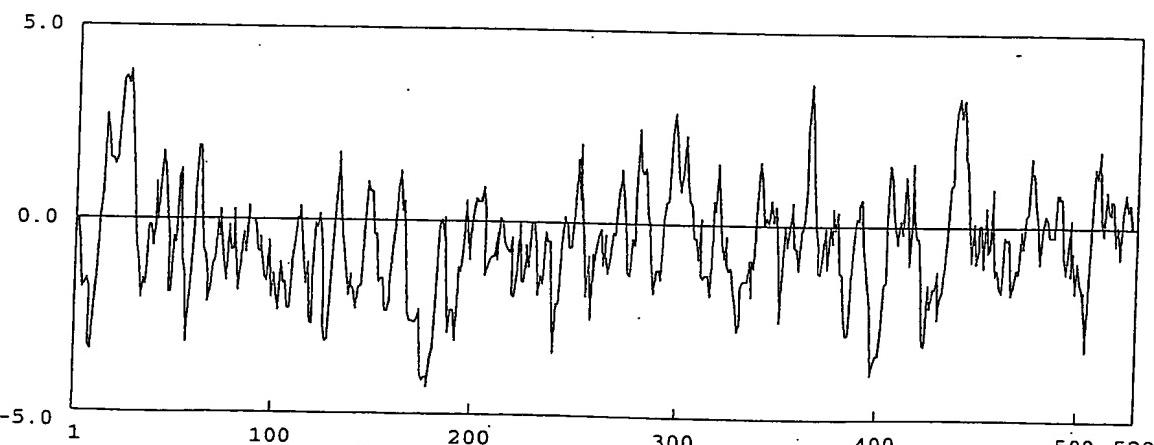


Fig.8

A

Mouse ST6Gal II

CAATGAAACCACACTTGAAGCAATGGCGACAACGAAATGGCTTTGGAAATTGGTTGGGGCTCTCTGGCAATTTCATCTACTTCACCAACAG M K P H L K Q W R Q R M L F G I F V W G L L F L A I F I Y F T N S	100 33
CAATCCGTGGCACCTATGCCAGCTCTTCTCTGGAGAGCCGCTGGACAGCAGGCAAGCAGGGCATGGCGCTTGCAG N P A A P M P S S F S F L E S R G L L P L Q G K Q R V I M G A L Q	200 66
GAACCCCTCTTGCCCAAAGATGGATGCAAGCAAAGTCTGGCTGGACAGCAGGCAACCTGAGAACCCCTTCACGGGCTGGGGACCCACAGAAATGG E P S L P R S L D A S K V L L D S H P E N P F H P W P G D P Q K W D	300 100
ATCAGGCCCAAATGGCTTGACAATGGGATGAGTTTACATCCCAGGGTGGAGGAATCAAAGCCTTCTATCCGAGGAAGATAAGCTATT Q A P N G F D N G D E F F T S Q V G R K S Q S A F Y P E E D S Y F	400 133
TTTTGTGCGGATCAGGCTGAGTTGTAACACCACAGGCAGGGTCACTGGAGCTGGCATCTCCAGGGAGACATCATGGGATCAGGACCTGTTCAAGCCC F V A D Q P E L Y H H R Q G A L E L P S P G E T S W R S G P V Q P	500 166
AAGCAGAAGCTTCACCCAAGGCAGGGCAGCTTGCAGGAAGCCTATGACAGCGACATGCTGTCAGCCTCATGTCAGAGCCTTCTGTACCGGC K Q K L L H P R R G S L P E E A Y D S D M L S A S M S R A F L Y R L	600 200
TCTGGAAGGGGCCGTGCTCTAAGATGTTGAACCCGCCCTGAGAACGGCATGCGTTACTACATGTCCTCAACAAGCATGGTGTGCGCTTCCGCAG W K G A V S S K M L N P R L Q K A M R Y Y M S F N K H G V R F R R	700 233
GCGGGCTGGCGTGAAGCTACACGTACAGGCCGGAGCTGTGAGATGCCAGCGTGTGCGACGGCAGAGGCGAGAGGGGCCCTTC R G R R E A T R T G P E L L C E M R R V R V R T L D G R E A P F	800 266
TCGGGCTGGCTGGCGCCCTGGTACCCAGGTGACCTCTGAGCCAGTTGACCCGCCGGTGTGAGCAGCTGCGCAGTTGTCATGTCGCCGTGCCA S G L G W R P L V P G V P L S Q L H P R G L S S C A V V M S A G A I	900 300
TCCTGAACCTCTCTGGGGAGGAATCGATTCATGATGCACTGAGTTTAACTCTGCCCTACCCGTGGCTACGAGAAAGATGTCGGAAATAA L N S S L G E E I D S H D A V L R F N S A P T R G Y E K D V G N K	1000 333
AACACAGTACGCATCAATTCTCAAGATTCTGCAACCCAGCCATCACTTCATGACAGTGTCTTATATAAAAGATGTTATCTCTGGTAGCCTGGAT T T V R I I N S Q I L A N P S H H F I D S A L Y K D V I L V A W D	1100 366
CCTGCTCTTATTCTGCAATCTAACCTGCGTATAAGAAGCCAGATTACAACCTTTTCACTCCATATATCCAGCATGCCGAAATACCCGACTCAGC P A P Y S A N L N L W Y K K P D Y N L F T P Y I Q H R R K Y P T Q P	1200 400
CATTTACATCTCACCCCAAGTTCATATGGCAGCTTGGACATTATCCAGGAGATAACAGGGAGAAGATACGCCCAACCCACCATCTCTGGTT F Y I L H P K F I W Q L W D I I Q E N T R E K I Q P N P P S S G F	1300 433
TATGGAAATCTCATCATGATGTCATGTTGAAAGAGGTGCACGTGTGATGAGTACATCCCATCTGTCGACAGACAGAGCTTGCACACTACCATGAGCTG I G I L I M M S M C K E V H V Y E Y I P S V R Q T E L C H Y H E L	1400 466
TACTACGACGCCGACCTGCACCTGGGGCCTACCAACCACTGCTCATGAAAAGCTACTGCGACGCCCTAACACAGGCCACCCAGGAGACTTGCACTC Y Y D A A C T L G A Y H P L L Y E K L L V Q R L N T G T Q A D L H H	1500 500
ACAAGGGCAAGGTAGTCTTGCCTGGCTTCCAGACCCCTCGGTGTCAGTAACAGCCCCAACAAATACACATTCCTAAATGAACTCTGGAAACTGATG K G K V V L P G F Q T L R C P V T S P N N T H S *	1600 524
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B

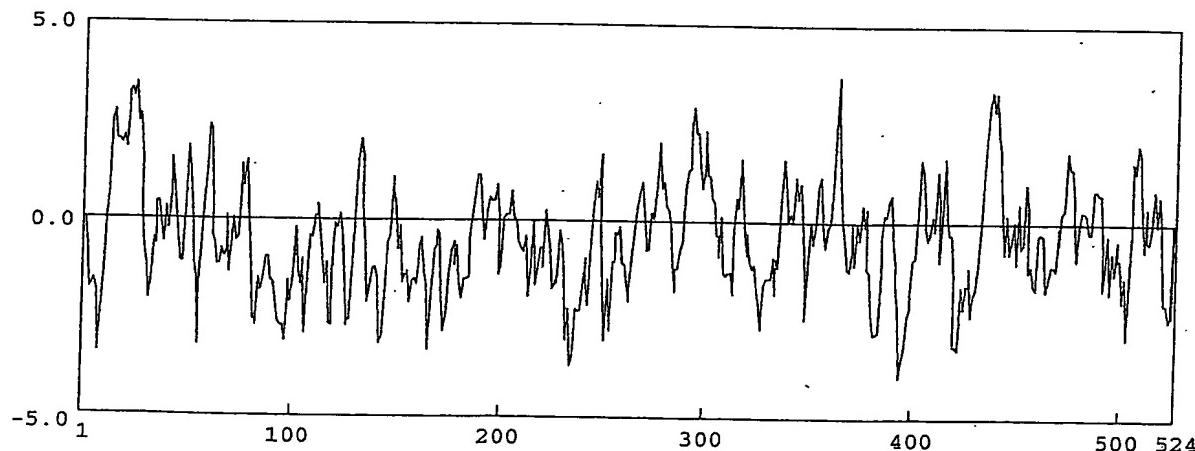


Fig.9

A

ST6Gal I	1	M-IH-TNLKKKFSCCVLVF-[LLFAVITCV-WKEKKKG-SYYDSFK-LQKEFQVLKSLGKL	54
ST6Gal II	1	MKPHLKQWRQRMLFGIFAWGLLFIIFIYFTDSNPAEPVPSLSFLETRRLLPVQGKQRA	60
ST6Gal I	55	AMGSDSQSVSSSSTQDPHRGRQTLGSLRGLAKAKPEAS-----	92
ST6Gal II	61	IMGAHEPSPPGGLDARQALPRAHPAGSFHAGPGDLQKWAQSQDGFEHKEFFSSQVGRKS	120
ST6Gal I	93	-----	92
ST6Gal II	121	QSAFYPEDDDYFFAAGQPGWHSHTQGTLGFSPGPREGAFPAAQVQRRRVKKRHRQ	180
ST6Gal I	93	-----FQVMNKDSSSKNLIPRLQKIWKNVLSMNKYKMSYK-----	128
ST6Gal II	181	RRSHVLEEGDDGDRLYSSMSRAFLYRLMKGNVSSKMINPRLOKAMKDYLITANKHGVFR	240
ST6Gal I	129	PGPGIKFSAEALRCHLRDHVNNSMVEVTDPFNTSEWEGLPKESIRTKAGFWC--RCAV	186
ST6Gal II	241	K-REAGLSRAQILCQLRSRARVRTLDGEAPESALGWRRLVAVPL-SQLHPLRSCAV	298
ST6Gal I	187	MSSAGSLKSSOLGREIDDHDADLRFNGAPTANFQQDVGTKTIRLMNSOLVT-TEKRLK	245
ST6Gal II	299	MMSAGAILNSSLGEEDIDSHDAVLRFNAPSRTGYEKDVGNKTTIRIINSQILTNPSPHEID	358
ST6Gal I	246	DSLYNNEGILIVWDHSVYHSDIPKWNQNPDYNFNNYKTYRKHLHPNQPFYIILKPQMPWELW	305
ST6Gal II	359	SSLYKDVLIVAWDPAPYSANLNLYWKKPDYNTPTMQHEORNPNQPFYIILHKFIIMQLW	418
ST6Gal I	306	DILQEITSPEETQPNPPSSGMLGIIIMMTLCDQMDIVELFLPSKRKTDVYVYQKFFDAACT	365
ST6Gal II	419	DILIDENTKEKLOPNPPSSGFIGILTMMSMCREHVYEVIPSVRQTELCHYHELYYDAACT	478
ST6Gal I	366	MGAYHPLLYEKNLVKHENOFTDESIYLLGKATLPGFRTIHC	406
ST6Gal II	479	LGAYHPLLYEKLLVQLNMTQGDLHRKGKVVLPGFQAVHOPAPSPVIPHS	529
	*	*	

B

hST6Gal II	1	MKPHLKQWRQRMLFGIFAWGLLFIIFIYFTDSNPAEEVPSSLSFLETRRLLPVQGKQRA	60
mST6Gal II	1	MKPHLKQWRQRMLFGIFVWGLLFIIFIYFTNSNPAAEAMPSSFSFLESRGLLFLQGKQRV	60
hST6Gal II	61	IMGAHEPSPPGGLDARQALPRAHPAGSFHAGPGDLQKWAQSQDGFEHKEFFSSQVGRKS	119
mST6Gal II	61	IMGAQEPSLRSLDASKVLLDSHRENFPHPWPGLDFQWDQAPNGFDNGDEFITSQVGRK	120
hST6Gal II	120	SQSAFYPEDDDYFFAAGQPGWHSHTQGTFGFPSPGPREGAFFAAQVQRRRVKKRHRQ	179
mST6Gal II	121	SQSAFYPEEDSYFFVADDPELYHHRQALELPSPGETSWRSD-----P-----VOPKQ-KLLH--	172
hST6Gal II	180	QRRSHVLEEGDDGFRYSSMSRAFLYRLWKGNVSSKMLNPRLOKAMKDYLITANKHGVFR	238
mST6Gal II	173	PRRGSLPEEAYDSMMSASMSRAFLYRLWKGAVSSKMLNPRLOKAMRYMSFNKHGVFR	232
hST6Gal II	239	-RGKREAGLSRAQILCQLRSRARVRTLDGEAPFSALGWRRLVAVPLSQLHPRGLRSCA	297
mST6Gal II	233	RRGRREATRTGPELLCEMRRRVVRTLDGEAPFSGLGWRPLVPGVPLSQLHPRGLSSCA	292
hST6Gal II	298	VVMSAGAILNSSLGEEDIDSHDAVLRFNAPSRTGYEKDVGNKTTIRIINSQILTNPSPHF	357
mST6Gal II	293	VVMSAGAILNSSLGEEDIDSHDAVLRFNAPSRTGYEKDVGNKTTIRIINSQILANPSPHF	352
hST6Gal II	358	DSSLYKDVLIVAWDPAPYSANLNLYWKKPDYNLFTPYIQHQRORNPNQPFYIILHPKFIWQL	417
mST6Gal II	353	DSALYKDVLIVAWDPAPYSANLNLYWKKPDYNLFTPYIQHRRKYETQPFYIILHPKFIWQL	412
hST6Gal II	418	WDIIQENTKEKIOPNPPSSGFIGILIMMSMCREHVYEVIPSVRQTELCHYHELYYDAAC	477
mST6Gal II	413	WDIIQENTREKIOPNPPSSGFIGILIMMSMCKEVHVYEVIPSVRQTELCHYHELYYDAAC	472
hST6Gal II	478	FLGAYHPLLYEKLLVQLNMTQGDLHRKGKVVLPGFQAVHCPAPSIPVPHS	529
mST6Gal II	473	FLGAYHPLLYEKLLVQLNMTQADLHHKGKVVLPGFQTLRCPTSPNNTHS	524

Fig.10

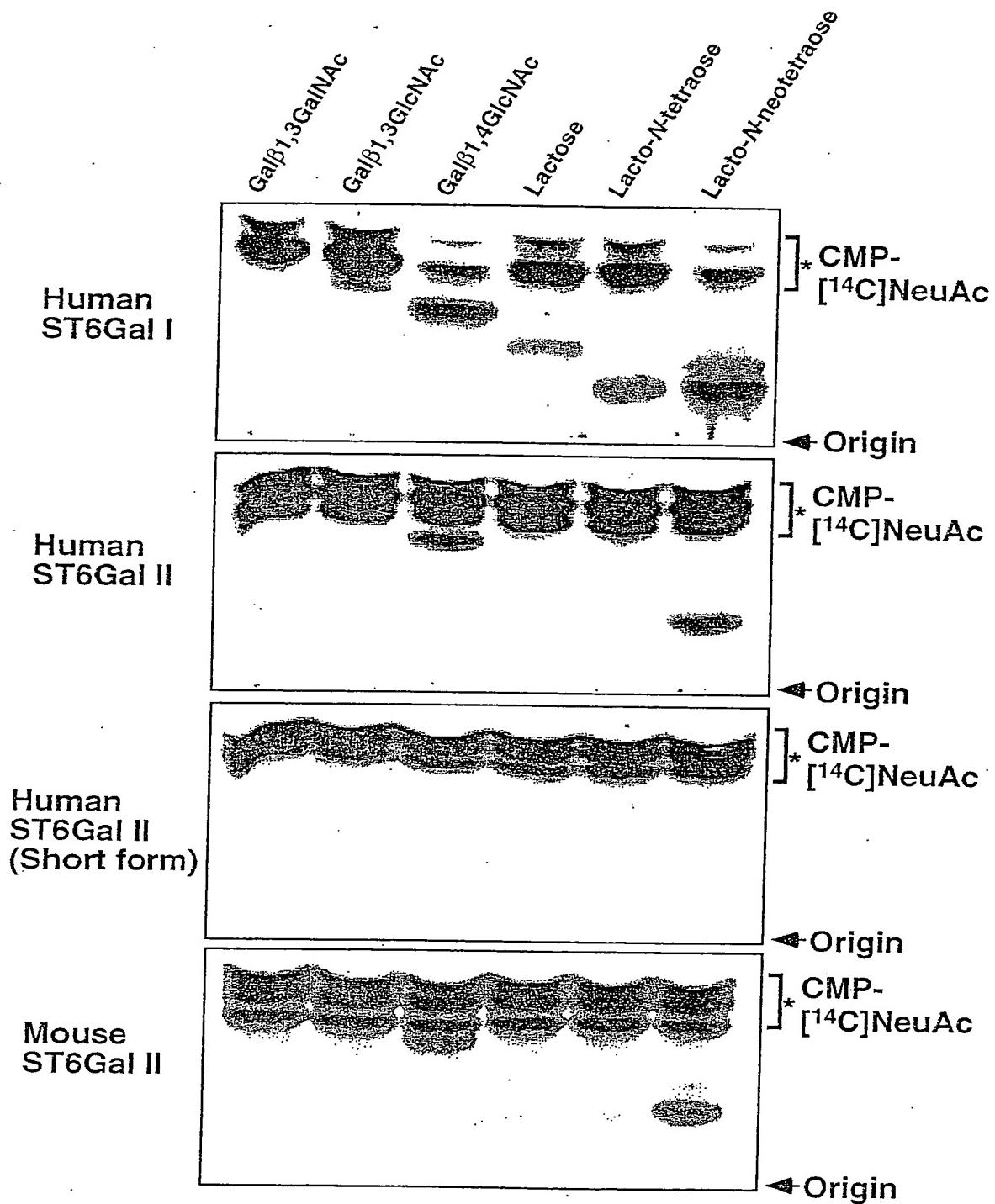
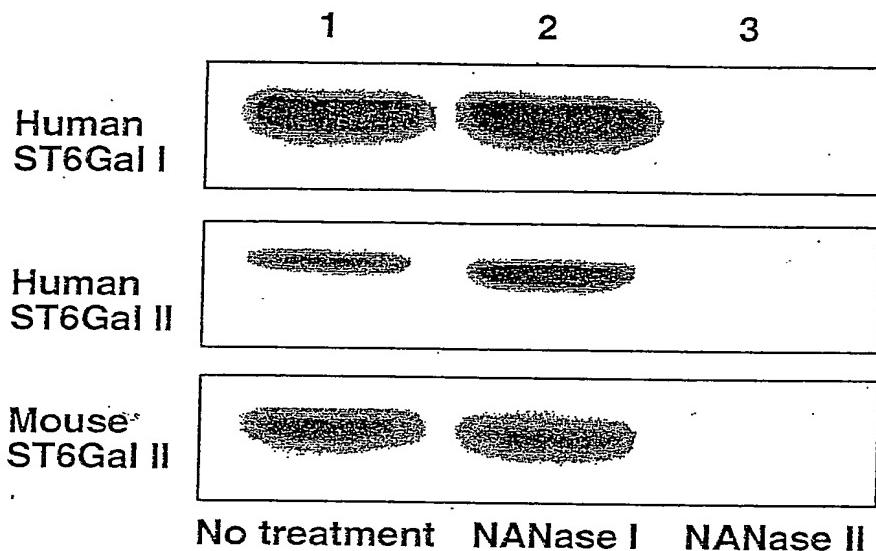


Fig.11

A



B

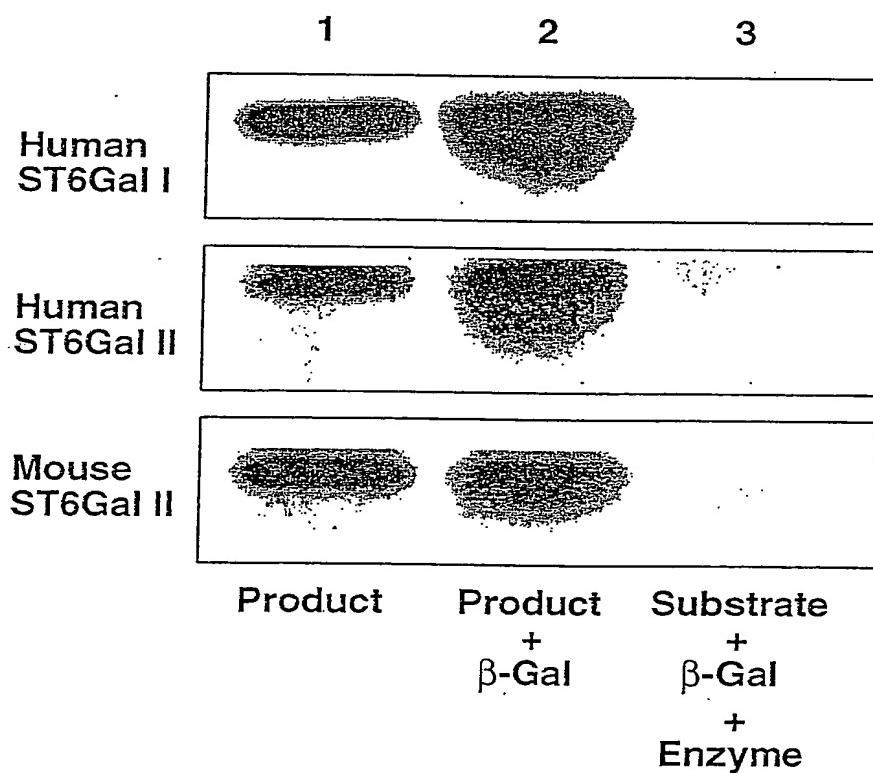
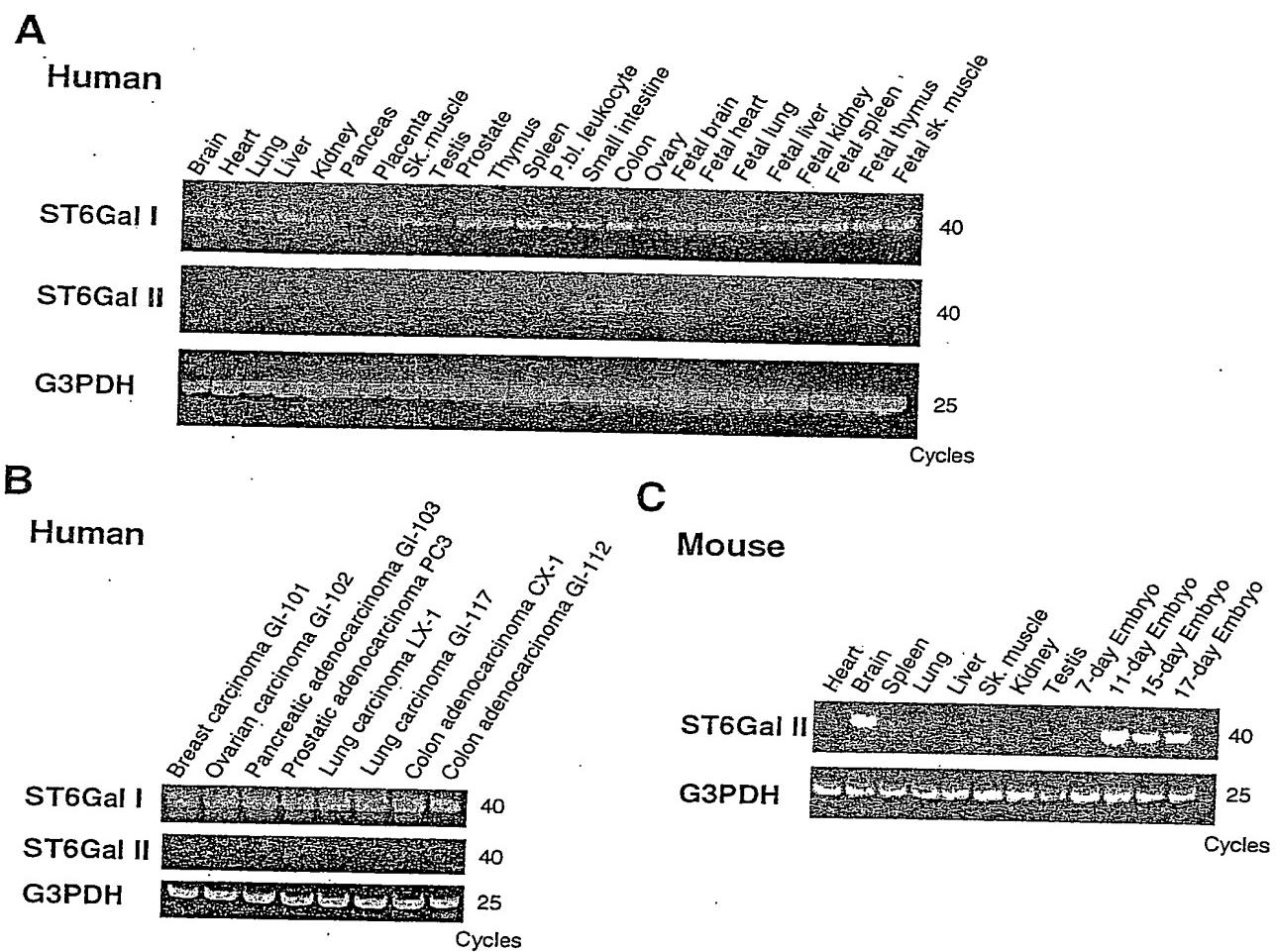


Fig.12



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